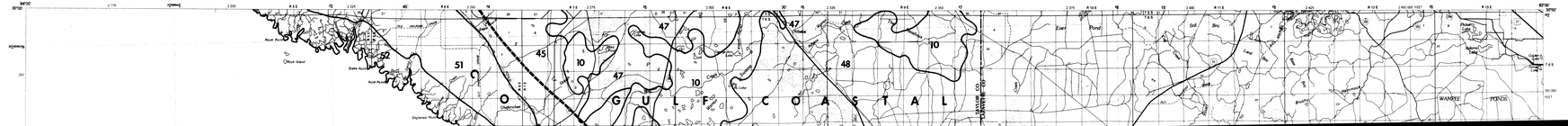
MMS 14 '85 I 49.89:82-/47-1/map C 13

CROSS CITY QUADRANGLE
FLORIDA
1:100 000-SCALE SERIES (TOPOGRAPHIC)

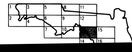


MAP C13

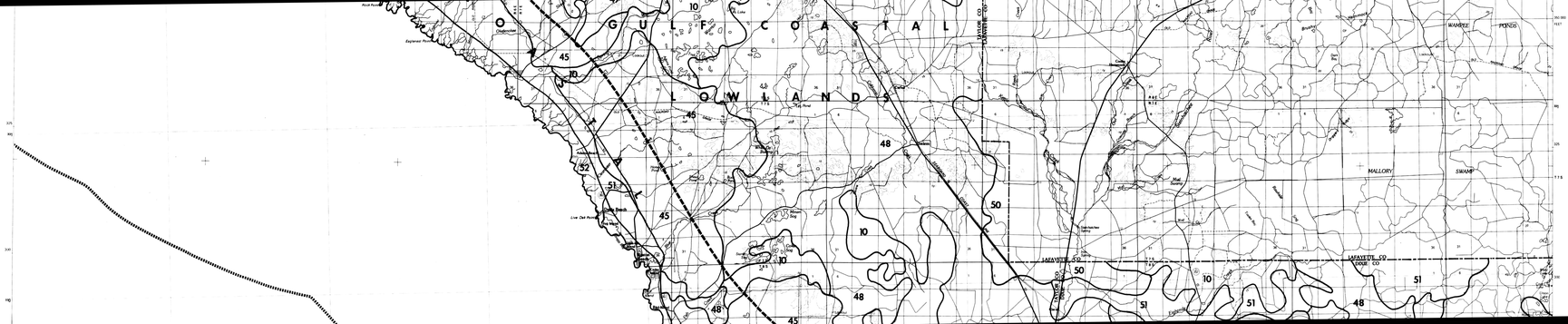
Cross City

FLORIDA ECOLOGICAL ATLAS

SOILS AND LANDFORMS



MMS 85-0011
FWS/OBS-82/47.1



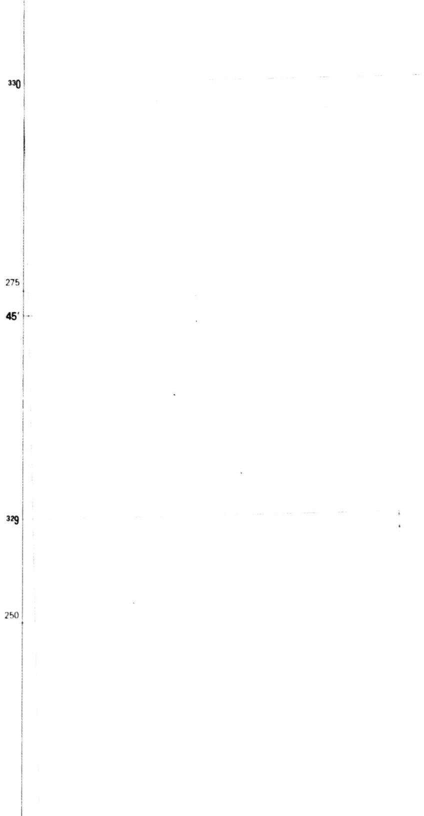
Scale 1:100 000

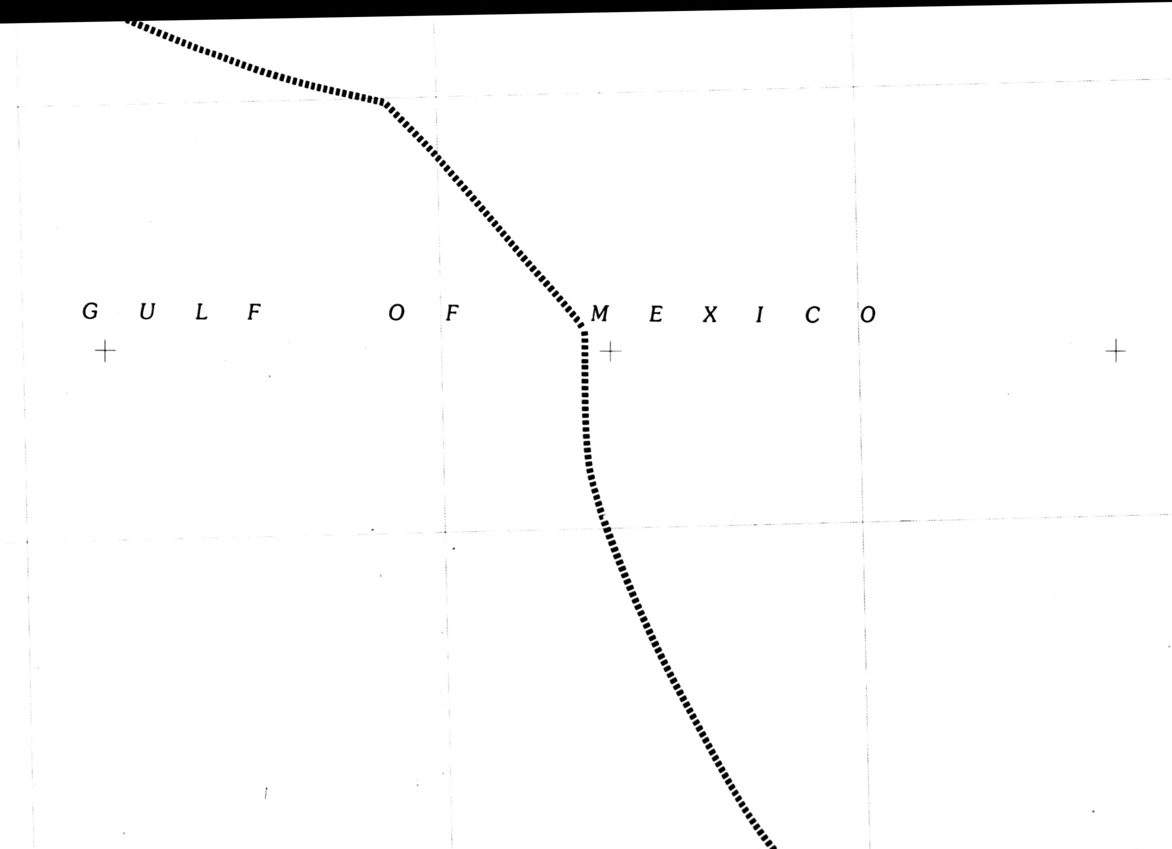
TOPICAL MAPS IN THIS ATLAS:
A. BIOLOGICAL RESOURCES
B. SOCIOECONOMIC FEATURES
C. SOILS AND LANDFORMS
D. OIL, GAS AND MINERALS
E. HYDROLOGY AND CLIMATOLOGY

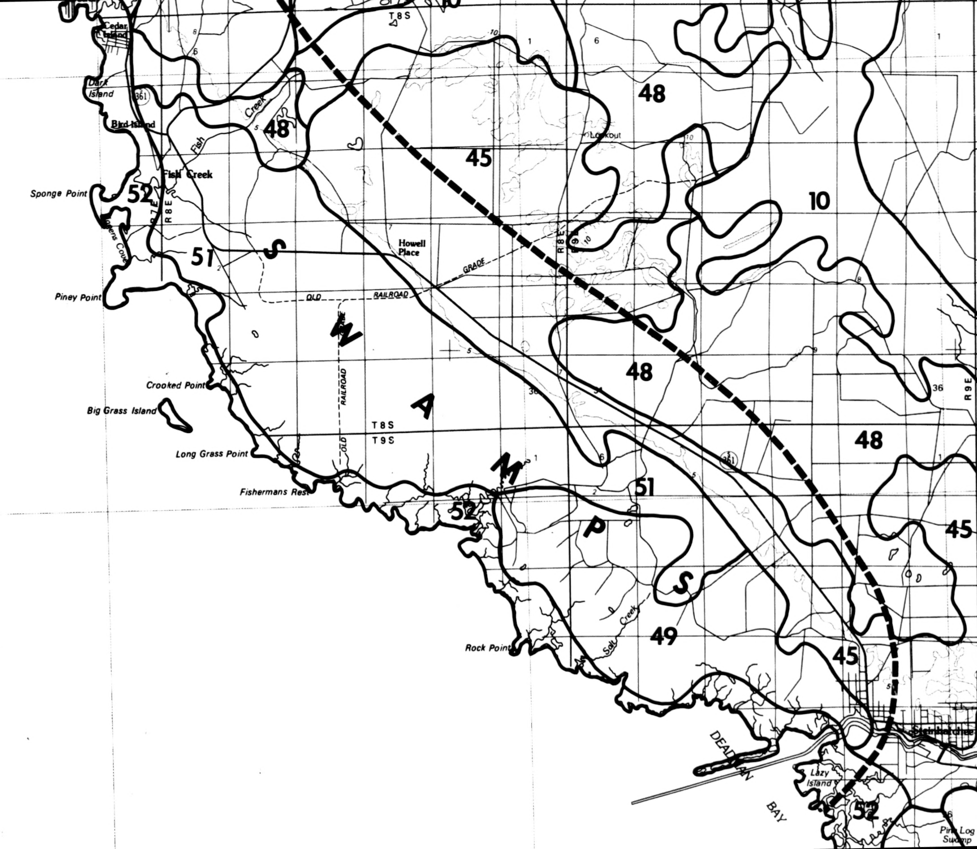
1984

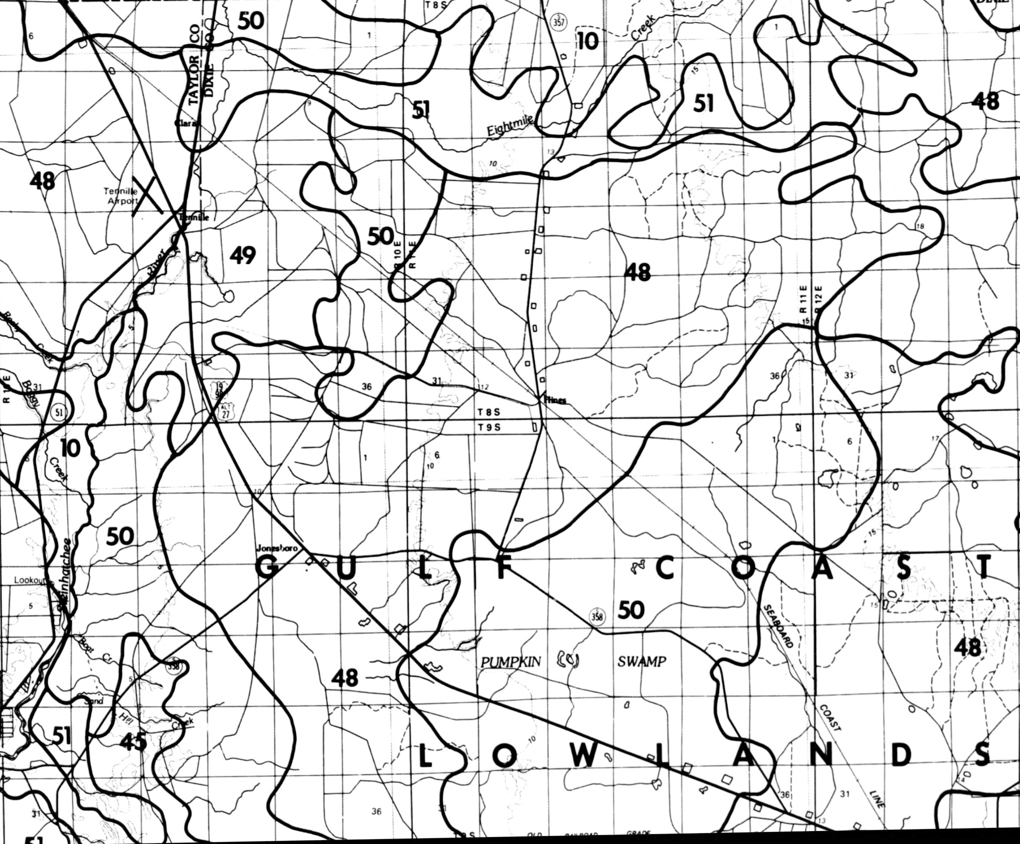
Produced by U.S. Fish and Wildlife
Service and Minerals Management Service

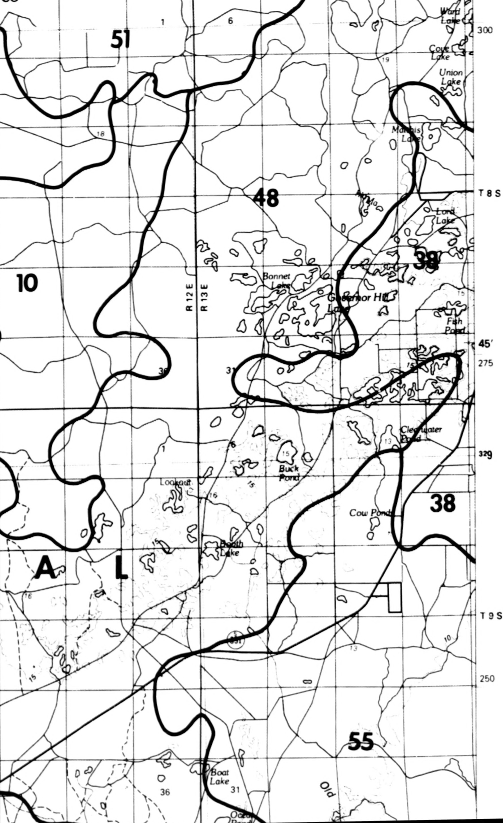
Projection and 10 000 meter grid, zone 17, Universal


330
275
45′
329
250


GULF OF MEXICO


Cedar Island
T 8 S
Dark Island
361
Bird Island
Fish Creek
Fish Creek
48
45
48
Lookout
10
Sponge Point
52
R 7 E
R 8 E
Hagens Cove
51
Piney Point
S
W
A
M
P
S
Howell Place
GRADE
OLD RAILROAD
OLD RAILROAD
48
48
R 8 E
R 9 E
36
Crooked Point
Big Grass Island
T 8 S
T 9 S
Long Grass Point
Fishermans Rest
52
51
361
45
49
Salt Creek
Rock Point
45
DEADMAN BAY
Steinhatchee
Lazy Island
52
Pine Log Swamp


T8S
50
357
10
Creek
DIXIE
6
1
1
TAYLOR CO
DIXIE CO
51
15
51
48
Clara
9
Eightmile
13
10
48
Tennille Airport
Tennille
50
R10E
R11E
49
18
48
River
R11E
R12E
15
Rocky Creek
5
R10E
Boggy
31
51
19
98
ALT 27
36
31
12
Pines
36
31
T8S
T9S
10
Creek
1
6
10
1
6
17
10
50
Jonesboro
Lookout
Steinhatchee
5
GULF COAST LOWLANDS
358
50
15
15
SEABOARD COAST LINE
48
Boat Cr
358
5
PUMPKIN SWAMP
48
Sand
Hill
Creek
51
45
10
31
36
31
36
31
13
T9S
OLD RAILROAD GRADE
51


51
48
10
38
38
55
A
L
R 12 E
R 13 E
Ward Lake
Cove Lake
Union Lake
Mathis Lake
Lord Lake
Bonnet Lake
Governor Hill Lake
Fish Pond
Clearwater Pond
Buck Pond
Lookout
Cow Pond
Booth Lake
Boat Lake
Old
300
T 8 S
45′
275
329
T 9 S
250

Sa

Produced by U.S. Fish and Wildlife
Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17: Universal Transverse Mercator
25,000-foot grid ticks based on Florida coordinate system, west zone

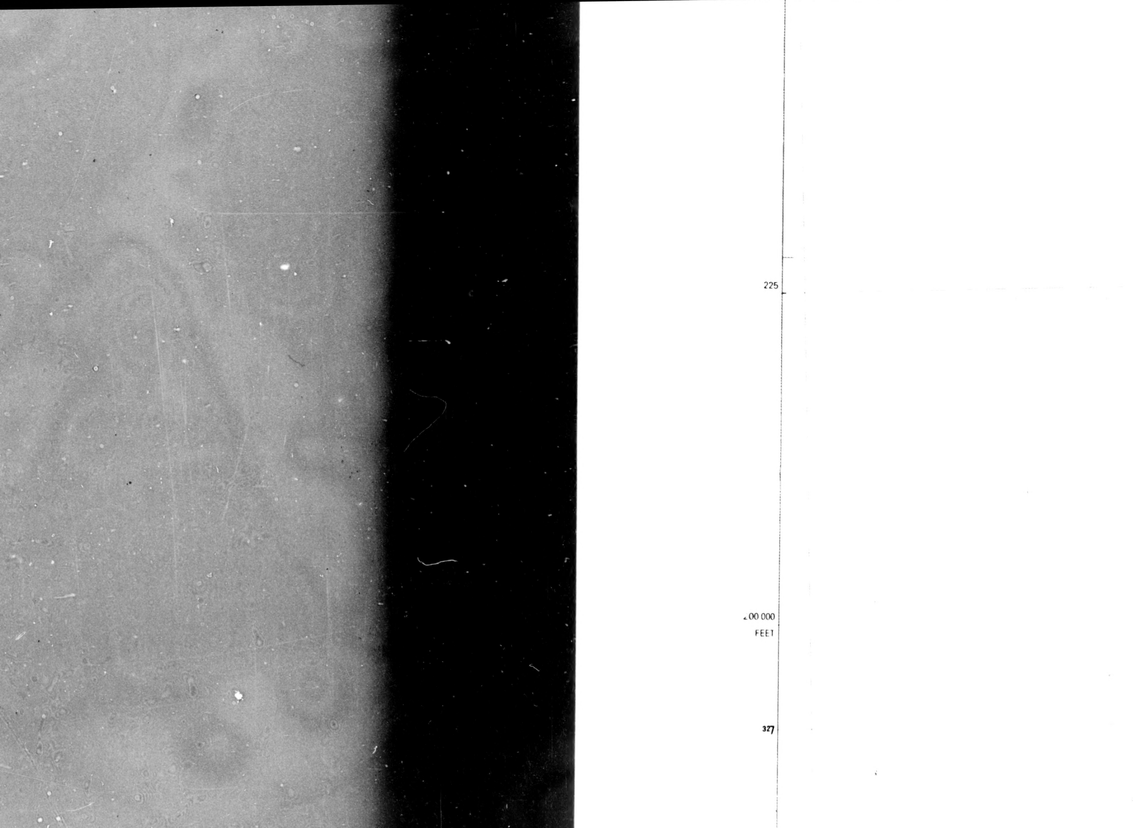
Overlay material compiled in 1983 from latest available data obtained from Federal, State and Local government agencies and other sources.

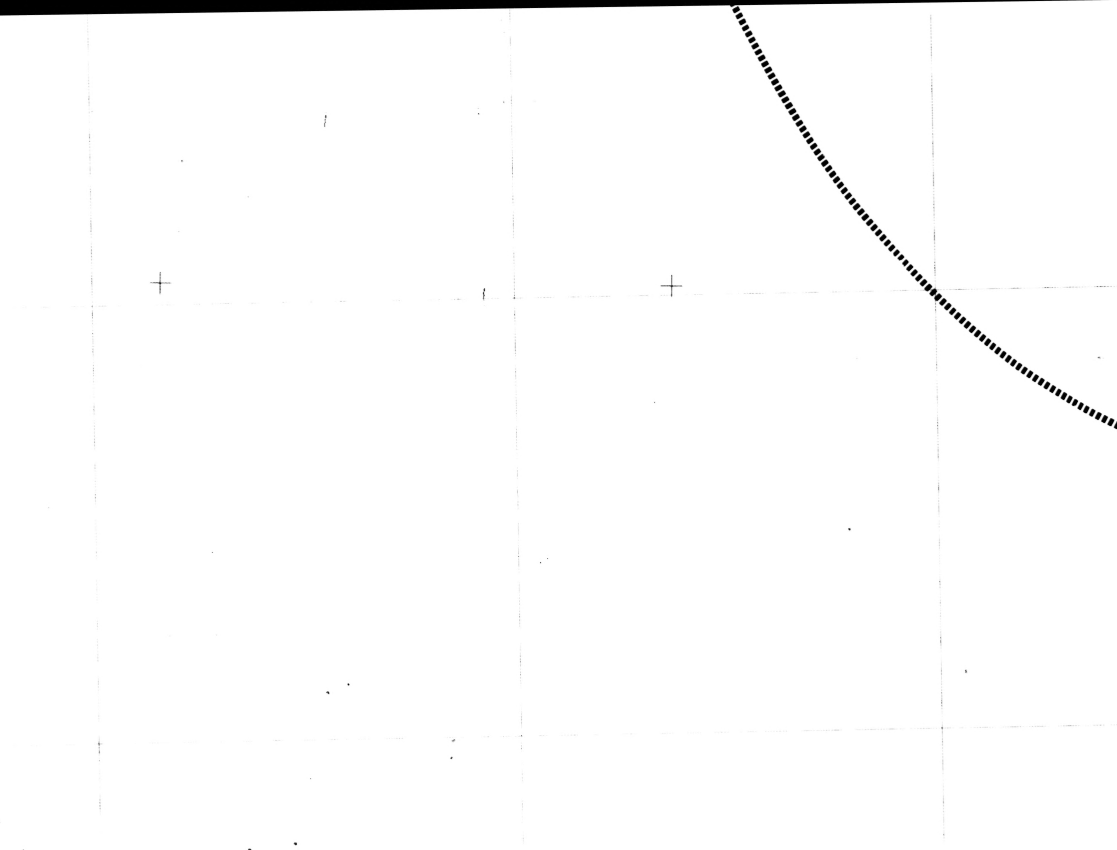
MAJOR SURFACE LANDFORMS

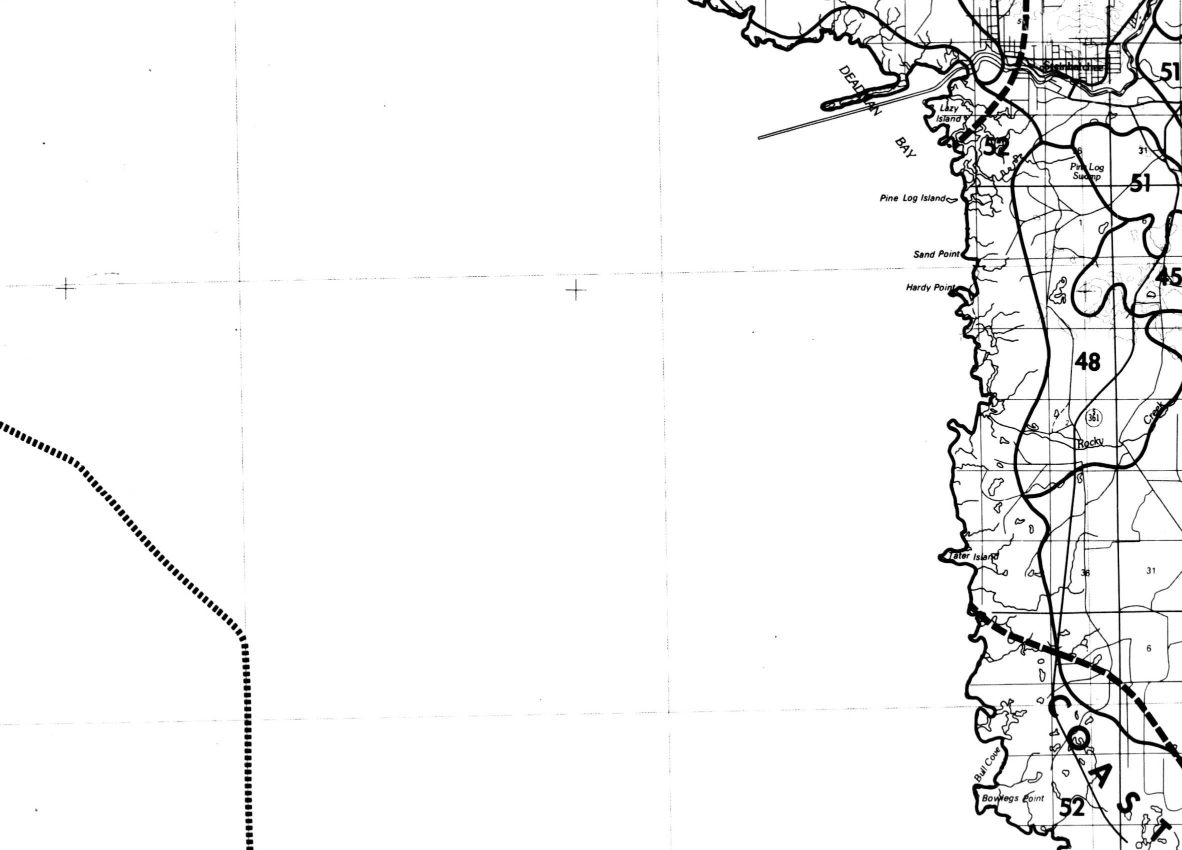
Western Highlands
Escambia Valley
Gulf Coastal Lowlands
Gulf Barrier Chain
Marianna Lowlands
New Hope Ridge
Greenhead Slope
Fountain Slope
Grand Ridge
Northern Highlands
Coastal Swamps
Brooksville Ridge
Western Valley

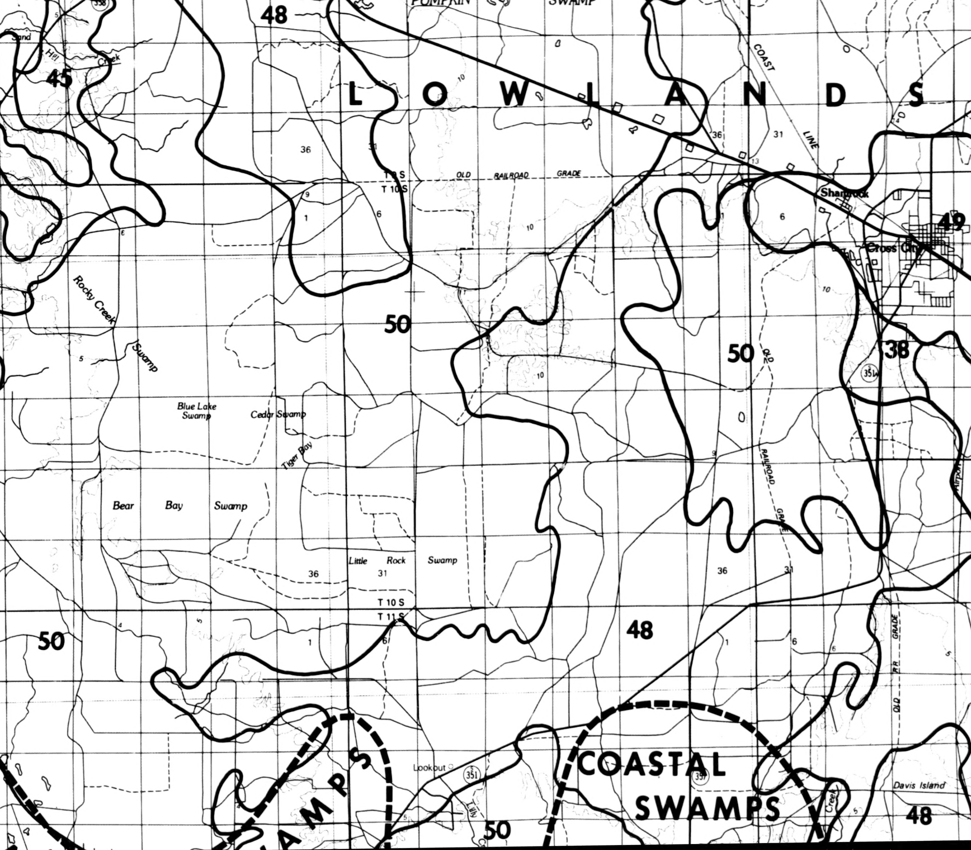
SOIL ASSOCIATIONS

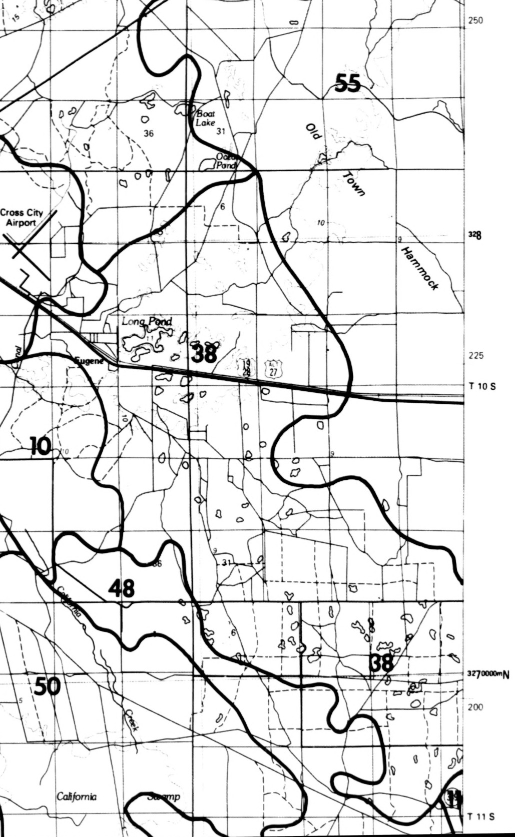
1. Lakeland-Eustis-Lakewood Association
2. Lakeland, Ruston, and Norfolk-Sunsweet, Carnegie and Cuthbert Association
3. Red Bay-Blakely Association
4. Tifton-Carnegie-Faceville Association
5. Norfolk-Ruston-Savannah Association
6. Tifton-Irvington-Lynchburg Association
7. Klej-Leon Association
8. Huckabee-Kalmia-Izagota Association
9. Coastal Dune Land and Beach-Tidal Marsh Association
10. Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association
11. Lakeland-Paola-Kureb-St. Lucie-Rimini Association
12. Lakeland-Troup Association
13. Troup-Orangeburg Association
14. Dothan-Orangeburg Association


225
00 000
FEET
327

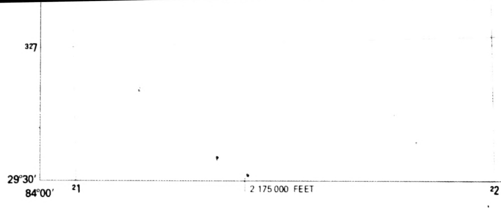



DEADMAN BAY
Steinhatchee
51
Lazy Island
52
Pine Log Swamp
31
51
Pine Log Island
1
6
Sand Point
45
Hardy Point
48
361
Rocky
Creek
Tater Island
36
31
6
Bull Cove
Bowlegs Point
52
COAST


POMPKIN
SWAMP
48
Sand Hill Creek
45
L O W L A N D S
COAST LINE
OLD RAILROAD GRADE
T 9 S
T 10 S
36
31
6
1
10
13
Shamrock
Cross City
49
Rocky Creek Swamp
50
38
351A
Blue Lake Swamp
Cedar Swamp
Tiger Bay
OLD RAILROAD GRADE
Bear Bay Swamp
Little Rock Swamp
T 10 S
T 11 S
50
48
OLD RR GRADE
Airport
Lookout
351
357
COASTAL SWAMPS
SWAMPS
Lilly Creek
Creek
Davis Island
50
48


250
55
Boat Lake
31
36
Old Town
Ocala Pond
Cross City Airport
6
10
328
Hammock
Long Pond
38
Eugene
225
19
27
T 10 S
10
31
36
48
38
3270000mN
50
200
California
Creek
California Swamp
T 11 S

4. Tifton-Carnegie-Faceville Association
5. Norfolk-Ruston-Savannah Association
6. Tifton-Irvington-Lynchburg Association
7. Klej-Leon Association
8. Huckabee-Kalmia-Izagota Association
9. Coastal Dune Land and Beach-Tidal Marsh Association
10. Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association
11. Lakeland-Paola-Kureb-St. Lucie-Rimini Association
12. Lakeland-Troup Association
13. Troup-Orangeburg Association
14. Dothan-Orangeburg Association
15. Red Bay-Lucy Association
16. Chipley-Scranton Association
17. Johns-Leaf Association
18. Salt Water Marsh-Bayvi-Dirego Association
19. Fuquay-Lucy-Troup Association
20. Dothan-Orangeburg-Tifton Association
21. Lakeland-Faceville Association
22. Chipley-Albany-Leon Association
23. Ardilla-Leefield-Stilson Association
24. Tifton-Faceville-Greenville Association
25. Norfolk-Ruston-Goldsboro Association
26. Tifton-Faceville-Marlboro Association
27. Lakeland-Cuthbert-Shubuta Association
28. Blanton-Klej-Plummer Association
29. Goldsboro-Lynchburg-Rains Association
30. Kureb-Resota-Mandarin Association
31. Lakeland-Foxworth-Centenary Association
32. Leefield-Albany-Stilson Association
33. Hurricane-Chipley-Albany Association
34. Pottsburg-Leon-Rutlege Association
35. Plummer-Pelham Association
36. Rutlege-Allanton-Pickney Association
37. Chipley-Albany-Stilson Association
38. Leon-Albany-Plummer-Chipley-Osier Association
39. Dunbar-Bladen Association
40. Dothan-Stilson-Lucy Association
41. Ardilla-Leefield-Pansey Association
42. Chipley-Albany-Blanton Association
43. Leon-Felda-Matmon Association
44. Dothan-Orangeburg-Red Bay Association
45. Alpin-Blanton-Eustis Association
46. Orangeburg-Lucy-Dothan Association
47. Chipley-Albany-Plummer Association
48. Leon-Mascotte-Rutlege Association
49. Broward, var.-Matmon-Osier Association
50. Manatee, var.-Felda, Var.-Copeland, Var. Association
51. Fresh Water Swamp, Shallow to Limestone Association
52. Salt Water Marsh and Swamp-Coastal Dunes Association
53. Alpin-Blanton Association
54. Chipley-Blanton-Swamp Association
55. Adamsville, var.-Chiefland-Blanton Association
56. Candler-Apopka Association
57. Jonesville-Chiefland-Archer Association
58. Arredondo-Gainesville Association
59. Hernando-Archer-Chiefland Association
60. Sparr-Lochloosa-Tavares Association
61. Adamsville-Osier Association
62. Bushnell-Wabasso-Felda Association


327
29°30′
84°00′
21
2 175 000 FEET
22

THE FLORIDA ECOLOGICAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES, NATIONAL COASTAL ECOSYSTEMS TEAM (FWS/OBS - 82/47) AND THE MINERALS MANAGEMENT SERVICE FOR COASTAL PLANNERS, DECISION MAKERS, AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS, AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES THE COASTAL COUNTIES: ESCAMBIA, SANTA ROSA, OKALOOSA, WALTON, WASHINGTON, BAY, CALHOUN, GULF, FRANKLIN, WAKULLA, JEFFERSON, TAYLOR, DIXIE, LEVY, CITRUS AND HERNANDO, AND EXTENDS OFFSHORE APPROXIMATELY 10 MILES. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)
1.0
1.1
1.25
1.4
1.8
2.0
2.2
2.5
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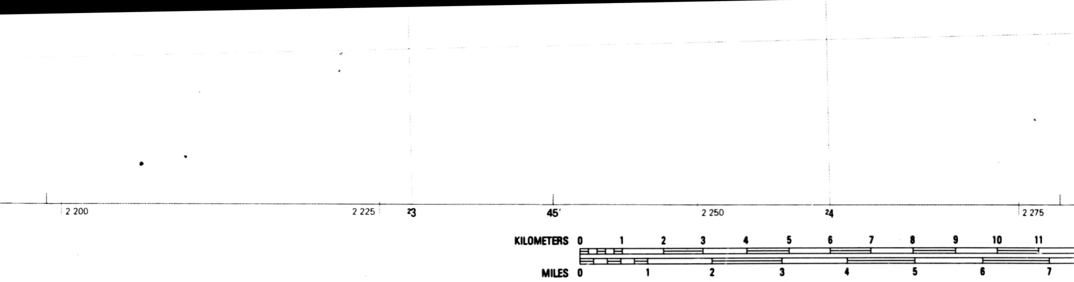
4.0
4.5
5.0


2 200
2 225
23
45′
2 250
24
2 275
KILOMETERS 0 1 2 3 4 5 6 7 8 9 10 11
MILES 0 1 2 3 4 5 6 7

PRIMARY SOURCES OF MAPPED INFORMATION:

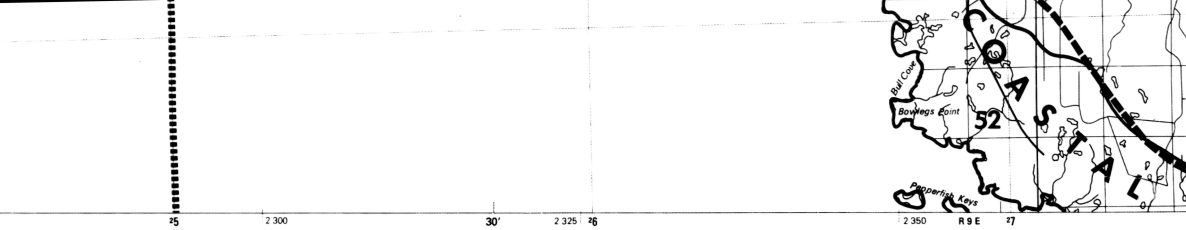
LANDFORMS: Physiographic Map of Florida,
State Bureau of Geology, 1980.

SOILS: General Soils Atlas of Florida,
Division of State Planning, 1975.
General Soils Atlas of Florida, U.S.
Soil Conservation Service, 1982.

ACTIVE DUNES: Black and White Aerial
Photography, 1:80,000 Scale, Mark Hurd
Aerial Surveys Inc., 1980.
Topographic Maps, 1:24,000 Scale, U.S.
Geological Survey, various dates.

GEOLOGIC FAULTS: Map of Escambia and
Santa Rosa Counties Showing Contours on top
of the Lower Limestone of the Floridan
Aquifer, State Bureau of Geology, 1965.

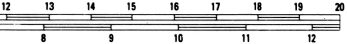
FOR COMPLETE REFERENCES SEE MAP NARRATIVE

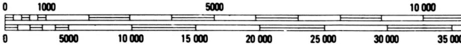

Bull Cove
Bowlegs Point
52
COASTAL
Pepperfish Keys
25
2 300
30′
2 325
26
2 350
R 9 E
27

SCALE 1:100 000

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND

CONTOUR INTERVAL 5 METERS


12
13
14
15
16
17
18
19
20
8
9
10
11
12


0
1000
5000
10 000
0
5000
10 000
15 000
20 000
25 000
30 000
35 000

10. **Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association:** Nearly level, poorly drained soils with a thick surface layer overlying a loamy subsoil and very poorly drained soils that are sandy throughout.

11. **Lakeland-Paola-Kureb-St. Lucie-Rimini Association:** Nearly level to steep, excessively drained soils, sandy throughout.

38. **Leon-Albany-Plummer-Chipley-Osier Association:** Nearly level, poorly drained sandy soils with weakly cemented sandy subsoil, and poorly drained soils with very thick sandy layers over loamy subsoil.

45. **Alpin-Blanton-Eustis Association:** Nearly level to sloping, excessively drained soils with very thick sandy layers over thin loamy sand or sandy loam lamella, and moderately well drained soils with very thick sandy layers over loamy subsoils, and somewhat excessively drained soils sandy throughout.

47. **Chipley-Albany-Plummer Association:** Nearly level to gently sloping, moderately well drained soils, sandy throughout, and somewhat poorly and poorly drained soils with very thick sandy layers over loamy subsoil.

48. **Leon-Mascotte-Rutlege Association:** Nearly level, poorly drained sandy soils with weakly cemented sandy subsoil, and poorly drained sandy soils with a weakly cemented sandy subsoil layer underlain by loamy subsoil, and very poorly drained soils sandy throughout.

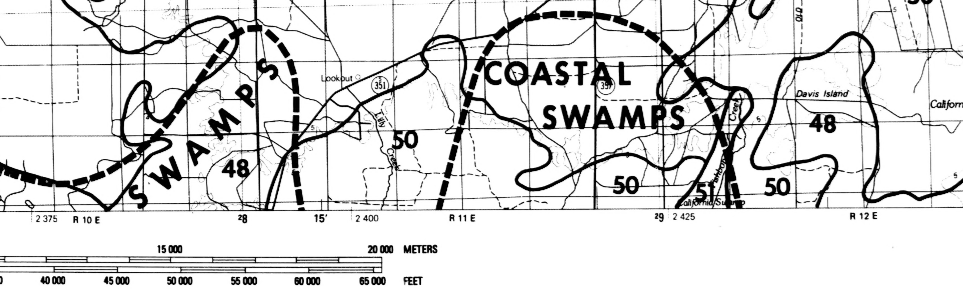
49. **Broward, var.-Matmon-Osier Association:** Nearly level, somewhat poorly drained sandy soils, shallow to limestone and somewhat poorly drained sandy soils with clayey subsoils, shallow to limestone and poorly drained soils sandy throughout.

50. **Manatee, var.-Felda, Var.-Copeland, Var. Association:** Nearly level, very poorly and poorly drained sandy soils with loamy subsoils, and very poorly drained sandy soils with loamy subsoils, shallow to limestone.

51. **Fresh Water Swamp, Shallow to Limestone Association:** Nearly level, very poorly drained soils, shallow to limestone, subject to prolonged flooding.

52. **Salt Water Marsh and Swamp-Coastal Dunes Association:** Nearly level, very poorly drained soils subject to frequent flooding by tidal waters, and somewhat excessively drained sandy soils.

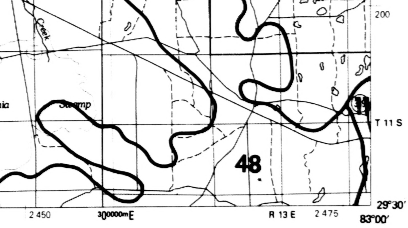
55. **Adamsville, var.-Chiefland-Blanton Association:** Nearly level to gently sloping, somewhat poorly drained soils, sandy throughout, and well drained soils with thick sandy layers over loamy subsoils that are underlain by limestone, and moderately well drained soils with very thick sandy layers over loamy subsoils.


SWAMPS
COASTAL SWAMPS
Lookout
351
357
Lilly Creek
Davis Island
California
California Swamp
Creek
48
50
48
50
50
51
50
48
2 375
R 10 E
28
15′
2 400
R 11 E
29
2 425
R 12 E
15 000
20 000 METERS
40 000
45 000
50 000
55 000
60 000
65 000
FEET

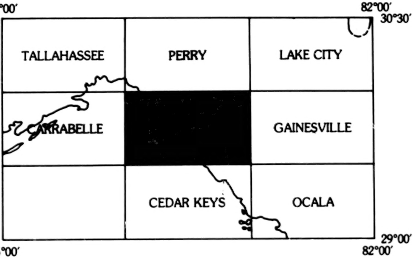
E=__ft/yr ▪‑‑‑‑‑‑‑▪	BEACH EROSION AREA (Period of Record: 1957-1981; Univ. of West Florida, 1981)	U ━━━━━ D	NORMAL FAULT (Showing relative vertical movement, U, up, and D, down)
A=__ft/yr ▪━━━━━▪	BEACH ACCRETION AREA (Period of Record: 1957-1981; Univ. of West Florida, 1981)	U ━━ ━━ D	SUB-SURFACE NORMAL FAULT (Showing relative vertical movement, U, up, and D, down)
■	GULF BARRIER ISLAND		STUDY AREA BOUNDARY
Ⓓ	ACTIVE DUNE AREA	▮▮▮▮▮▮▮▮▮▮▮▮▮	Offshore
		━━ ‑ ━━ ‑	Inland (County)
		━━ ‑ ‑ ━━	Inland (State)

85
30°30′

29°00′
85

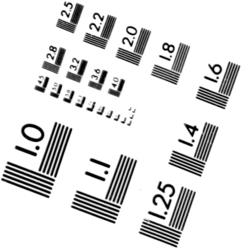

Creek
Swamp
48
39
200
T 11 S
29°30′
83°00′
2 450
300000mE
R 13 E
2 475

53. Alpin-Blanton Association
54. Chipley-Blanton-Swamp Association
55. Adamsville, var.-Chiefland-Blanton Association
56. Candler-Apopka Association
57. Jonesville-Chiefland-Archer Association
58. Arredondo-Gainesville Association
59. Hernando-Archer-Chiefland Association
60. Sparr-Lochloosa-Tavares Association
61. Adamsville-Osier Association
62. Bushnell-Wabasso-Felda Association
63. Blichton-Flemington-Kanapaha Association
64. Leon-Mascotte-Surrency Association
65. Lynne-Pomona-Pompano Association
66. Candler-Paola-Tavares Association
67. Candler-Adamsville-Pompano Association
68. Arredondo-Kendrick Association
69. Broward-Boca Association
70. Panasoffkee-Bushnell Association
71. Myakka-Basinger Association
72. Meggett, var.-Pompano Association
73. Terra Ceia-Placid Association
74. Arredondo-Sparr-Kendrick Association
75. Candler-Lake Association
76. Masaryk Association
77. Nobleton-Blichton-Flemington Association
78. EauGallie-Wabasso-Basinger Association
79. Paisley-Floridana-Wabasso Association
80. Okeelanta-Aripeka-Terra Ceia Association
81. Homosassa-Weekiwachee-Lacoochee Association
82. Floridana-Basinger Association
83. Salt Water Marsh and Swamp Association
84. Fresh Water Swamp and Marsh Association
85. Blichton-Lochloosa-Kendrick Association
86. Paisley-Bushnell Association
87. Myakka-Pomello Association


°00′
82°00′
30°30′
TALLAHASSEE
PERRY
LAKE CITY
CARRABELLE
GAINESVILLE
CEDAR KEYS
OCALA
29°00′
82°00′
°00′

MICROFILMED FROM
BEST AVAILABLE COPY

MICROCOPY RESOLUTION TEST CHART
NBS 1010a
(ANSI and ISO TEST CHART No. 2)


2.5
2.2
2.0
1.8
1.6
2.8
3.2
3.6
4.0
4.5
5.0
1.0
1.1
1.25
1.4